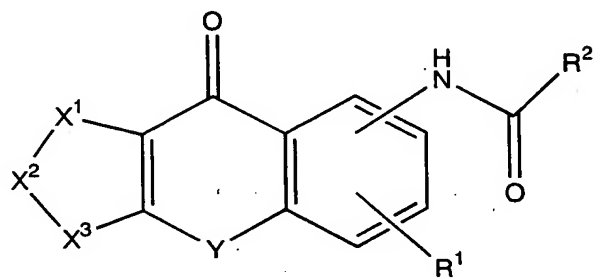


CLAIMS

1. An antitussive which comprises, as an active ingredient, a tricyclic compound represented by Formula (I)



(I)

{wherein R^1 represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkoxy or halogen,

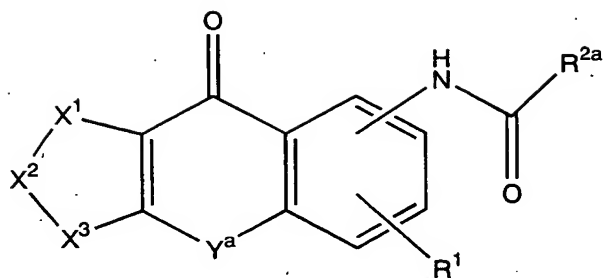
$X^1-X^2-X^3$ represents $CR^5=CR^6-CR^7=CR^8$ [wherein R^5 , R^6 , R^7 and R^8 may be the same or different and each represents a hydrogen atom, substituted or unsubstituted lower alkyl, hydroxy, substituted or unsubstituted lower alkoxy, nitro, amino, mono(lower alkyl)-substituted amino, di(lower alkyl)-substituted amino, substituted or unsubstituted lower alkanoylamino or halogen], $N(O)_m=CR^6-CR^7=CR^8$ (wherein R^6 , R^7 and R^8 have the same meanings as defined above, respectively and m represents 0 or 1), $CR^5=CR^6-N(O)_m=CR^8$ (wherein R^5 , R^6 , R^8 and m have the same meanings as defined above, respectively), $CR^5=CR^6-CR^7=N(O)_m$ (wherein R^5 , R^6 , R^7 and m have the same meanings as defined above, respectively), $CR^5=CR^6-O$ (wherein R^5 and R^6 have the same meanings as defined above, respectively), $CR^5=CR^6-S$ (wherein R^5 and R^6 have the same

meanings as defined above, respectively), $O-CR^7=CR^8$ (wherein R^7 and R^8 have the same meanings as defined above, respectively), $S-CR^7=CR^8$ (wherein R^7 and R^8 have the same meanings as defined above, respectively) or $O-CR^7=N$ (wherein R^7 has the same meaning as defined above),

Y represents $-CH_2S-$, $-CH_2SO-$, $-CH_2SO_2-$, $-CH_2O-$, $-CH=CH-$, $-(CH_2)_p-$ (wherein p represents an integer of 0 to 2), $-SCH_2-$, $-SOCH_2-$, $-SO_2CH_2-$ or $-OCH_2-$, and

R^2 represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkoxy, amino, mono(substituted or unsubstituted lower alkyl)-substituted amino, di(substituted or unsubstituted lower alkyl)-substituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted or unsubstituted aralkylamino, substituted or unsubstituted arylamino, or a substituted or unsubstituted heterocyclic group} or a pharmaceutically acceptable salt thereof.

2. An antitussive which comprises, as an active ingredient, a tricyclic compound represented by Formula (Ia)



(Ia)

[wherein R^1 and X^1 - X^2 - X^3 have the same meanings as defined above, respectively,

Y^a represents $-\text{CH}_2\text{SO}_2-$, $-\text{SCH}_2-$, $-\text{SOCH}_2-$, $-\text{SO}_2\text{CH}_2-$ or $-\text{OCH}_2-$ and when Y^a is $-\text{CH}_2\text{SO}_2-$, $-\text{SCH}_2-$, $-\text{SOCH}_2-$ or $-\text{SO}_2\text{CH}_2-$,

R^{2a} represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkoxy, amino, mono(substituted or unsubstituted lower alkyl)-substituted amino, di(substituted or unsubstituted lower alkyl)-substituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted or unsubstituted aralkylamino, substituted or unsubstituted arylamino, a substituted or unsubstituted heteroalicyclic group, or a substituted or unsubstituted nitrogen-containing heterocyclic group and

when Y^a is $-\text{OCH}_2-$,

R^{2a} represents a hydrogen atom, trifluoromethyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkoxy, amino, mono(substituted or unsubstituted lower

$$\begin{array}{c} \text{(---)} \\ | \\ \text{---(---)}_n\text{---C---R}^3 \\ | \\ \text{Q} \end{array}$$

(wherein n is 0 or 1; R³ and R⁴ may be the same or different and represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aryl, or substituted or unsubstituted aralkyl, or R³ and R⁴ may be combined together with the adjacent carbon atom thereto to form cycloalkyl; and Q represents hydroxy, substituted or unsubstituted lower alkoxy, amino or halogen)] or a pharmaceutically acceptable salt thereof.

4. The antitussive according to Claim 2, wherein Y^a is $-OCH_2-$.

33

or halogen.

6. The antitussive according to any of Claims 2 to 4, wherein R^1 is a hydrogen atom.

7. The antitussive according to any of Claims 2, 5 and 6, wherein Y^a is $-\text{CH}_2\text{SO}_2-$, $-\text{SO}_2\text{CH}_2-$ or $-\text{OCH}_2-$.

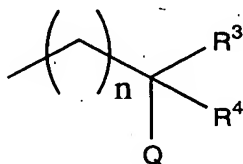
8. The antitussive according to any of Claims 2, 5 and 6, wherein Y^a is $-\text{CH}_2\text{SO}_2-$ or $-\text{SO}_2\text{CH}_2-$.

9. The antitussive according to any of Claims 2, 5 and 6, wherein Y^a is $-\text{CH}_2\text{SO}_2-$.

10. The antitussive according to any of Claims 2 to 9, wherein $X^1-X^2-X^3$ is $\text{S}-\text{CR}^7=\text{CR}^8$ (wherein R^7 and R^8 have the same meanings as defined above, respectively).

11. The antitussive according to any of Claims 2 to 9, wherein $X^1-X^2-X^3$ is $\text{CR}^5=\text{CR}^6-\text{CR}^7=\text{CR}^8$ (wherein R^5 , R^6 , R^7 and R^8 have the same meanings as defined above, respectively).

12. The antitussive according to any of Claims 2 to 11, wherein R^{2a} is Formula (II)



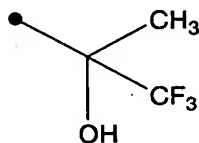
(II)

(wherein n , R^3 , R^4 and Q have the same meanings as defined above, respectively).

13. The antitussive according to Claim 12, wherein n is 0.

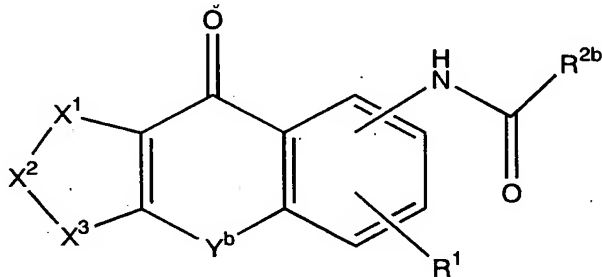
14. The antitussive according to Claim 13, wherein R³ is methyl, R⁴ is trifluoromethyl, and Q is hydroxy.

15. The antitussive according to Claim 2, wherein R¹ is a hydrogen atom, Y^a is -CH₂SO₂-, X¹-X²-X³ is S-CR⁷=CR⁸ (wherein R⁷ and R⁸ have the same meanings as defined above, respectively), and R² is Formula (III)



(III)

16. An antitussive which comprises, as an active ingredient, a tricyclic compound represented by Formula (Ib)

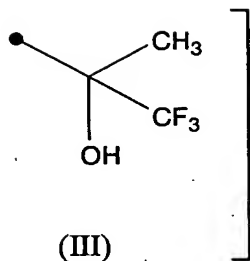


(Ib)

[wherein R¹ and X¹-X²-X³ have the same meanings as defined above, respectively,

Y^b represents -CH₂O-, -CH₂S-, -CH₂SO-, -CH=CH- or -(CH₂)_p- (wherein p has the same meaning as defined above) and

R^{2b} represents Formula (III)



or a pharmaceutically acceptable salt thereof.

17. The antitussive according to Claim 16, wherein $X^1-X^2-X^3$ is $CR^5=CR^6-CR^7=CR^8$ (wherein R^5 , R^6 , R^7 and R^8 have the same meanings as defined above, respectively) or $CR^5=CR^6-CR^7=N$ (wherein R^5 , R^6 and R^7 have the same meanings as defined above, respectively).

18. The antitussive according to Claim 16, wherein $X^1-X^2-X^3$ is $CR^5=CR^6-O$ (wherein R^5 and R^6 have the same meanings as defined above, respectively) or $CR^5=CR^6-S$ (wherein R^5 and R^6 have the same meanings as defined above, respectively).

19. The antitussive according to Claim 16, wherein $X^1-X^2-X^3$ is $O-CR^7=CR^8$ (wherein R^7 and R^8 have the same meanings as defined above, respectively) or $S-CR^7=CR^8$ (wherein R^7 and R^8 have the same meanings as defined above, respectively).

20. The antitussive according to any of Claims 16 to 19, wherein Y^b is $-CH_2O-$.

21. The antitussive according to any of Claims 16 to 19, wherein Y^b is $-(CH_2)_p-$ (wherein p has the same meaning as defined above).

22. The antitussive according to Claim 21, wherein p is 0.

23. The antitussive according to Claim 21, wherein p is 2.

24. The antitussive according to any of Claims 16 to 19, wherein Y^b is $-CH=CH-$.

25. The antitussive according to any of Claims 16 to 19, wherein Y^b is $-CH_2S-$ or $-CH_2SO-$.

26. A method for alleviation of a cough, which comprises a step of administering an effective amount of the tricyclic compound or the pharmaceutically acceptable salt thereof described in any of Claims 1 to 25.

27. Use of the tricyclic compound or the pharmaceutically acceptable salt thereof described in any of Claims 1 to 25 for the manufacture of an antitussive.